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QUIZZES

Practice Test-1 (Support & Movement)



10 Questions



7 min

Topics

Human Skeleton (Bone and Cartilage),
Disorder of Human Skeleton

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Start Quiz

SAEED MDCAT TEAM



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1/10



7 min



Hint

Q : Osteoblasts after conversion form:

A

Osteocytes

B

Osteoclasts

C

Stem cells

D

Chondrocytes

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SAEED MDCAT TEAM



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2/10



7 min



Hint

Q : It is the most abundant type of cartilage in human body:

A

Hyaline cartilage

B

Fibrocartilage

C

Elastic cartilage

D

Living cartilage

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SAEED MDCAT TEAM



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1

2

3

4

5

6

7



3/10



7 min



Hint

Q : Epiglottis is:

A

Muscular

B

Cartilaginous

C

Fibrous

D

Bony

SAEED MDCAT**SAEED MDCAT TEAM****SAEEDMDCAT**



4/10



7 min



Hint

Q : The collagen fibers of bones are hardened by deposit of:

A

Calcium phosphate

B

Calcium nitrate

C

Calcium chloride

D

Calcium sulphate

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7



5/10



7 min



Hint

Q : Bone and cartilage are types of:

A

Soft connective tissue

B

Special type of connective tissue

C

Rigid connective tissue

D

Rigid and soft connective tissue respectively

SAEED MDCAT

SAEED MDCAT TEAM



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6/10



7 min



Hint

Q : Bone matrix is hardened by:

A

Haversian canals

B

Canaliculi

C

Bone marrow tissue

D

Calcium phosphate

SAEED MDCAT

SAEED MDCAT TEAM



SAEEDMDCAT

1

2

3

4

5

6

7



7/10



7 min



Hint

Q : Final structure of remodeled area resembles that of the original unbroken bone because it responds to the same set of _____ stimuli.

A

Chemical

B

Mechanical

C

Hormonal

D

Electrochemical

SAEED MDCAT**SAEED MDCAT TEAM****SAEEDMDCAT**



8/10



7 min



Hint

Q : ____ in legs are not symptom of sciatica.

A

Pain

B

Weakness

C

Joint degeneration

D

Numbness

SAEED MDCAT

SAEED MDCAT TEAM



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9/10



7 min



Hint

Q : Which of the following is a microbial infectious disease?

A

Tetany

B

Cramps

C

Rigor mortis

D

Tetanus

SAEED MDCAT

SAEED MDCAT TEAM



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4

5

6

7

8

9

10



Q10

7 min

100%

Q All of the following are related with muscle fatigue except



A Hypocalcaemia



B Low ATP



C High Lactic acid in muscle cells

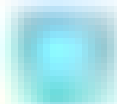


D Low pH in muscle fibers

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Before

After 3 days



Experiment



Q Osteoblasts after conversion form



Osteocytes



Osteoclasts



Stem cells



Chondrocytes

Explanation

Osteoclasts are bone dissolving cells whereas chondrocytes are cartilage forming cells. Mature bone cells are formed from osteoblasts.



Correct

Incorrect



Wrong Answer



Q It is the most abundant type of cartilage in human body



Hyaline cartilage



Fibrocartilage



Elastic cartilage

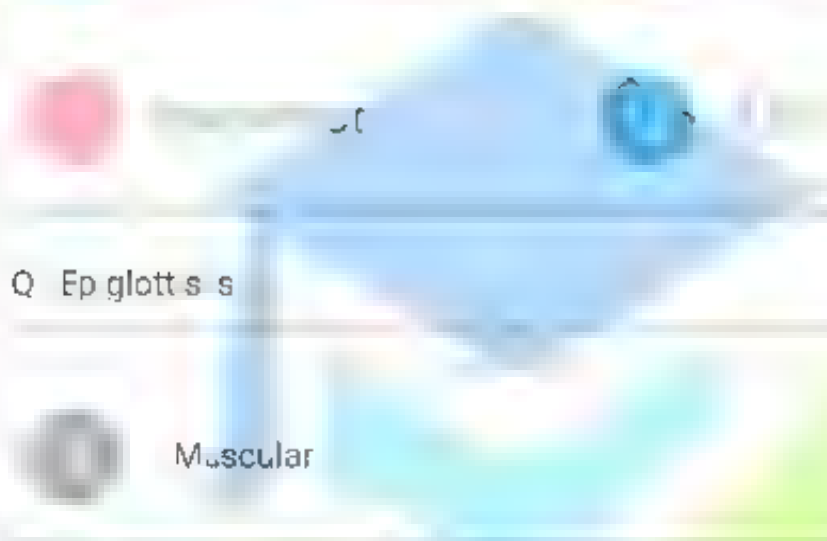


Living cartilage

Explanation

Fibro- is found in vertebral discs joint capsules, ligaments

Elastic is found in the external ear e.g. ott's and larynx



Q Epiglottis is

☐ Muscular

☒ Cartilaginous

☐ Fibrous

☐ Bony

Explanation

Epiglottis is elastic in nature and softer than bone



Correct

Incorrect



Wrong Answer



Question

Q The collagen fibers of bones are hardened by deposit of



Calcium phosphate



Calcium nitrate



Calcium chloride



Calcium sulphate

Explanation

Bones are reservoirs of minerals like calcium and phosphate

Before:          After:         

Q Bone and cartilage are types of

- ☐ A Soft connective tissue
- ☐ B Special type of connective tissue
- ☒ C Rigid connective tissue

Q Rigid and soft connective tissue respectively

Explanation

Tissues use to connect, support or bind other tissues or organs



Correct

Notified



Wrong



Q Bone matrix is hardened by



Haversian canals



Canaliculi



Bone marrow tissue



Calcium phosphate

Explanation

The collagen fibres of most rigid connective tissue of our body are hardened by deposit of calcium phosphate



Rec

rotated



ut



Q Final structure of remodeled area resembles that of the original unbroken bone because it responds to the same set of stimuli



Chemical



Mechanical



Hormonal



Electrochemical

Explanation

Remodeled bones behave and respond to mechanical or physical stimuli just like original bone

100% correct 100% correct

100% correct

Q Pain in legs are not symptom of sciatica

☐ Pain

☐ Weakness

☒ Joint degeneration

☐ Numbness

Explanation

Sciatica is a term that describes symptoms of pain, numbness, and/or weakness that radiate along the **sciatic** nerve from the lower back to the buttocks and leg



Correct

Incorrect



Wrong



Q Which of the following is a microbial infectious disease?



Tetany



Cramps



Rigor mortis



Tetanus

Explanation

Tetanus is an infection caused by bacteria called *Clostridium tetani* and affects skeletal muscles badly

Correctly answered

Incorrectly answered

Q All of the following are related with muscle fatigue except

☒ Hypocalcaemia

☐ Low ATP

☐ High Lactic acid in muscle cells

☐ Low pH in muscle fibers

Explanation

Low calcium in blood lead to tetany

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QUIZZES

Practice Test-2 (Support &
Movement)



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Q Hinge joints allow movements on

- ☐ A Single plane
- ☐ B Two planes
- ☒ C Three planes
- ☐ D Four planes

Q Sutures (Joints of skull) are examples of

- ☒ A Immovable joints
- ☐ B Slightly moveable joints
- ☐ C Freely moveable joints
- ☐ D Synovial joints

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Q Symphysis pubis is actually a

- ☒ Joint
- ☐ Sac like structure
- ☐ Gland
- ☐ Tube carrying genital material

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SAEED MDCAT TEAM

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Q Joint formed by distal end of femur is

- ☐ A Ball and socket joint
- ☐ B Pivot joint
- ☒ C Hinge joint
- ☐ D Fibrous joint

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Q Speed of contraction is slow to rapid in case of

☐ A Smooth muscles

☐ B Cardiac muscles

☒ C Skeletal muscles

☐ D All A, B, C

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for

7 min

1.1

Q Contract on of skeletal muscles is caused by



Spontaneous



Stretch



Hormones



Nervous system

SAEED MDCAT

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/ 3



7 min

100

Q Type of muscles which have regular striations and voluntary control are



Smooth muscles



Cardiac muscles



Skeletal muscles



All A, B, C

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SAEEDMDCAT



Q These are visceral non striated and involuntary

- ☐ A Smooth muscles
- ☐ B Cardiac muscles
- ☐ C Skeletal muscles
- ☐ D All A, B, C



Q Ball and socket joints have at least _____ groups of muscles

☐ 1

☐ 2

☒ 3

☐ 4

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Q.10

7 min

100

Q The functional partner of bones is



Tendons



Skeletal muscles



Ligaments

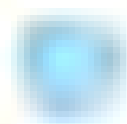


Fasciae

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Q Hinge joints

Q Hinge joints allow movements on.

☒ A Single plane

☐ B Two planes

☐ C Three planes

☐ D Four planes

Explanation

It allows the movement up to 180° like between femur and tibia



Free

Rated 3.0/5



Answered



Q Sutures (Joints of skull) are examples of



Immovable joints



Slightly moveable joints



Freely moveable joints



Synovial joints

Explanation

These are least moveable joints



Rec

Notified



Unanswered



Qs

Q Symphysis pubis is actually a



Joint



Sac like structure



Gland



Tube carrying genital material

Explanation

Symphysis pubis is formed in front of pelvic region where two pubic bones meet.



Correct

Incorrect



Wrong Answer



Wrong Answer

Q Joint formed by distal end of femur is



Ball and socket joint



Pivot joint



Hinge joint



Fibrous joint

Explanation

Tibia forms joint with femur, that allows 180 degree movement



Correct

Rate: 3.0/5



Wrong!



Q Speed of contraction is slow to rapid in case of



Smooth muscles



Cardiac muscles



Skeletal muscles



All A, B, C

Explanation

Muscles without rhythmicity and in our control



Correct

Not attempted



Wrong



Q Contract on of skeletal muscles is caused by



Spontaneous



Stretch



Hormones



Nervous system

Explanation

Smooth muscles are controlled by hormones as well as nervous stimulation and so is cardiac



Correct

Not Attempted



Wrong



Q Type of muscles which have regular striations and voluntary control are



Smooth muscles



Cardiac muscles



Skeletal muscles



All A, B, C

Explanation

Voluntarily controlled muscles having regular striations are also multinucleated and unbranched



Correct

Not Attempted



Incorrect



Q These are visceral non striated and involuntary



Smooth muscles



Cardiac muscles



Skeletal muscles



All A, B, C

Explanation

Skeletal and Cardiac muscles are striated while only skeletal muscles are voluntary muscles



Correct

Not Attempted



Correct



Q Ball and socket joints have at least _____ groups of muscles



1



2



3



4

Explanation

In order to provide maximum degree movement at least 2 pairs of muscles should attach

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Q The functional partner of bones is

A Tendons

B Skeletal muscles

C Ligaments

D Fasciae

Explanation

The contractile structures under the control of somatic nervous system

QUIZZES

Practice Test-3 (Support & Movement)

1. The following are the types of support:

()

1. Primary support, 2. Secondary support

()

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Q Generally each end of the entire muscle is attached to bone by a bundle of collagen, non-elastic fibers known as

- ☐ A Cartilage
- ☐ B Ligament
- ☒ C Tendon
- ☐ D Periosteum

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SAEED MDCAT TEAM

SAEEDMDCAT





Life



Zoo



Bot



Med

Q Sarcoplasm of skeletal muscle fiber is different from cytoplasm of other cells because of all of the following except:



Stored glycogen



Myoglobin



Location of nuclei



RER

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Q It is non-polarizing to light

☐ A band

☐ H zone

☒ C band

☐ All A, B, C

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7/10

7 min

100%

Q It is a dense connective tissue that surrounds entire muscle



Tendon



Ligament



Epimysium



Perimysium

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Q Sarcoplasmic reticulum does not contain



Cisternae



Tubules



Ribosomes



Ca^{+2} -gates

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SAEED MDCAT TEAM

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/ic

7 min

100

Q In cardiac muscles, T-tubules extend and encircle the myofibrils at



A-band



A-Junction



Z-line



M-line

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/ 3



7 min

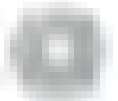
100%

Q

At the start of a muscle contraction, calcium ions are released from



Action



Motor neuron



T tubule



Sarcoplasmic reticulum

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Q When more energy is required for muscle contraction, it is provided by an energy storing substance called

- ☐ Glucose
- ☒ ATP
- ☐ Lactic acid
- ☐ Creatine phosphate

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SAEED MDCAT TEAM

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Q It is an energy storing protein in skeletal muscles

- ☐ A Myoglobin
- ☐ B Creatine phosphate
- ☒ C ATP
- ☐ D Glycogen

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Q/10

7 min

100

Q Part of muscle that is able to contract is:



Origin



Insertion



Tendon



Belly

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4

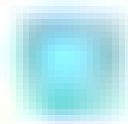
5

6

7

8

9





Free

not needed



not



Q Generally each end of the entire muscle is attached to bone by a bundle of collagen non elastic fibers known as



Cartilage



Ligament



Tendon



Periosteum

Explanation

Fibrous structure encapsulates a fluid to provide cushion or protection whereas Ligaments are meant for the attachment of bone with bone



2

3

4

5

6

7

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Q Sarcoplasm of skeletal muscle fiber is different from cytoplasm of other cells because of all of the following except

☐ A Stored glycogen

☐ B Myoglobin

☐ C Location of nuclei

☒ D RER

Explanation

Basic organelles are same but position of nucleus is peripheral

Q It is non-polarizing to light

☐ A band

☐ H zone

☒ S band

☐ All A, B, C

Explanation

A-band is anisotropic in polarized light.

Correct Answer: ☒ Epimysium

Incorrect Answer: ☐ Ligament

Q It is a dense connective tissue that surrounds entire muscle

☐ Tendon

☐ Ligament

☒ Epimysium

☐ Perimysium

Explanation

Perimysium envelopes muscle bundles.

Correct Answer: Option C (Ribosomes)

Incorrect Answer: Option D (Ca²⁺ gates)

Q Sarcoplasmic reticulum does not contain

☐ A Cisternae

☐ B Tubules

☒ C Ribosomes

☐ D Ca²⁺ gates

Explanation

Sarcoplasmic reticulum is of smooth type of reticulum.

Correct Answer: Option (C) is correct

Correct Answer: Option (C) is correct

Q In cardiac muscles T-tubules extend and encircle the myofibrils at

☐ A-band

☒ A-I Junction

☐ Z-line

☐ M-line

Explanation

Thousands of T-tubules of each muscle cell are collectively called T system. It extends and encircles the myofibrils at the level of Z-line or A-I junction.



Correct



Unattempted



Incorrect



7/10

Q:

At the start of a muscle contraction, calcium ions are released from:

A

Actin

B

Motor neuron

C

T tubule

D

Sarcoplasmic reticulum

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Explanation



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Sarcoplasmic reticulum upon stimulation releases calcium ions into cytosol which then binds with Troponin.



Correct



Unattempted



Incorrect



8/10

Q : When more energy is required for muscle contraction, it is provided by an energy storing substance called:



Glucose



ATP



Lactic acid



Creatine phosphate

SAEED MDCAT TEAM

Explanation



SAEEDMDCAT

Lactic acid can be a source of energy but cannot supply energy rapidly on demand.



Correct



Unattempted



Incorrect



9/10

Q : It is an energy storing protein in skeletal muscles:



Myoglobin



Creatine phosphate



ATP



Glycogen

Explanation

ATP is not a protein.



Correct



Unattempted



Incorrect



10/10

Q : Part of muscle that is able to contract is:



Origin



Insertion



Tendon



Belly

Explanation

Origin and insertion are to hold muscles with bones.